

**REMARKS**

Claims 1-15 are pending in this application. By this Amendment, claims 1-5, and 9 are canceled and 10-15 are added to place this application into better condition for examination. Respectfully no new matter is added.

Respectfully submitted,

  
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## CLAIMS

1. (Cancelled)

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Cancelled)

6. A production method for a purification catalyst for exhaust gas, the method comprising:

preparing at least one kind of compound selected from a group of compounds of carboxylic acid having a hydroxyl group or a mercapto group and having a carbon number of 2 to 20, dicarboxylic acid having a carbon number of 2 or 3, and monocarboxylic acid having a carbon number of 1 to 20; and

adding at least one compound selected from the group to an aqueous nitrate solution including a component.

7. The production method for a purification catalyst for exhaust gas according to claim 6, the method comprising:

evaporating aqueous carboxylic acid completely to produce a carboxylic acid complex polymer; and

heating the carboxylic acid complex polymer.



8. The production method for a purification catalyst for exhaust gas according to claim 7, wherein a heating temperature in the heating of the carboxylic acid complex polymer is not more than 1000°C.

9. (Cancelled)

10. (New) A purification catalyst for exhaust gas, comprising an aluminum oxide supporting Pd, wherein the aluminum oxide is  $\text{PrAlO}_3$  or  $\text{NdAlO}_3$ .

11. (New) A purification catalyst for exhaust gas, comprising an  $\text{LnAlO}_3$  (Ln: rare-earth metal) supporting Pd, wherein the catalyst is produced by adding at least one kind of compound selected from the group of compounds of carboxylic acid having a hydroxyl group or a mercapto group and having a carbon number of 2 to 20, dicarboxylic acid having a carbon number of 2 or 3, and monocarboxylic acid having a carbon number of 1 to 20 to aqueous nitrate solution including a component.

12. (New) The purification catalyst for exhaust gas according to claim 11, wherein the aluminum oxide is trigonal or rhombohedral.

13. (New) The purification catalyst for exhaust gas according to claim 12, wherein the catalyst is produced by evaporating the aqueous nitrate solution completely, to produce a carboxylic acid



complex polymer and heating the carboxylic acid complex polymer.

14. (New) The purification catalyst for exhaust gas according to claim 12, wherein Pd is supported on  $\text{LnAlO}_3$  in which Ln is a rare-earth metal, and an oxidation state of Pd in a surface supporting Pd is a state of  $\text{Pd}^{2+}$ .

15. (New) A Purification catalyst equipment for exhaust gas, comprising the purification catalyst for exhaust gas according to claim 10 or 11.



## EXPLANATION BASED ON PCT ARTICLE 19

Rare-earth metal in claim 1 was limited to Pr or Nd disclosed in Practical Examples in the description, and amended. On the other hand, in the Documents 1 to 3, only La is applied to A site of perovskite-like oxide which is a supporting material, and these Documents do not disclose an application of Pr or Nd. Furthermore, an amendment in which claim 1 is combined with claim 3 which is admitted to have novelty and inventive step in the comment of International Search Report, has done. Therefore, the amended claim has novelty and inventive step in a range of the comment of International Search Report.